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FATTY ACID ESTERS OF ETHOXYLATED ALKYLGLUCOSIDES

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This application is a 371 of PCT/US03/18790 filed 6/13/2003 which claims benefit of 60/390,074 filed 6/19/2002.

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The present invention relates to a mixture of fatty acid esters of ethoxylated alkyglucosides and their use in cosmetic compositions.

Background of the Invention

Glucose derivatives, such as fatty acid esters of alkoxyated alkylgiucosides, may be produced from renewable raw materials. Due to agricultural over-
10 production the starting materials are low in cost and available in unlimited amounts. Therefore, much research efforts have been spent on the development of ethoxylated alkyglucosides and their uses.

US Patent No. 4,364,930 discloses a stable oil-in-water emulsion for use in cosmetic or pharmaceutical compositions. The emulsifying system comprises among
15 other components a mixture of (1) mono- and/or dialkyl carboxylates of alpha-methyl glucoside and (2) mono- and/or dialkyl carboxylates of alpha-methyl glucoside which has been polyoxyethylenated with 10-30 moles of ethylene oxide.

US Patent No. 5,502,175 discloses fatty acid esters which are prepared by ethoxylating methylgiucoside with from 84 to 300 moles, preferably 120 moles of
20 ethylene oxide and subsequent esterification with 2-4 moles, preferably 1.8-3.5 moles of a saturated or unsaturated C 1 fatty acid. The prepared fatty acids are used in shampoos and foam baths. They act as a thickening agent and have a good moisturizing effect and reduce irritation values of common ingredients, such as anionic and non-ionic surfactants.

25 U.S. Patent No. 4,687,843 discloses esterified propoxylated methyl glucoside compositions which are useful as skin moisturizers and emollients.

One object of the present invention is to find new acid esters of alkoxyated alkyglucosides. Another object of the present invention is to find acid esters of alkoxyated alkyglucosides which are useful in skin conditioning, and in particular
30 as an enhancer of skin lipids, that means as a refatting agent.